

KEY

Chemistry 112

Quiz Metric/Lab Safety Ver3 /18

Name: _____

1. Write the word TRUE or FALSE for the following statements:

/10

1. T	True	1. The last thing you should do before you leave the lab is wash your hands.
2. T	True	2. The proper technique for smelling a substance is to gently sniff while moving your hand above the container. This known as wafting the substance.
3. F	False	3. If a chemical gets on your skin or clothing, rinse it, then inform your teacher.
4. T/F	T or F	4. If you cut yourself, wash the area under cold water and inform your teacher.
5. F	False	5. Flip-flops may be worn in the laboratory.
6. F	False	6. Only taste substances that you have been instructed to taste in the laboratory.
7. T	True	7. The MSDS sheets are located in a red binder on the locker in the laboratory.
8. T	True	8. Safety glasses are to be worn at all times in the lab.
9. F	False	9. If you spill a chemical, wipe it up, then inform the teacher.
10. T	True	10. Read the directions for the procedure before beginning an experiment.

2. Do the following metric conversions. BE SURE TO SHOW WORK for questions that are worth more than one point.

a. 3.6 nL = _____ L	$3.6 \text{ nL} \times \frac{1 \text{ L}}{10^9 \text{ nL}} = 3.6 \times 10^{-9} \text{ L}$
b. 957 mm = _____ cm	$957 \text{ mm} \times \frac{1 \text{ m}}{10^3 \text{ mm}} \times \frac{10^2 \text{ cm}}{1 \text{ m}} = 9.57 \times 10^2 \text{ cm}$
c. $2.4 \times 10^{-22} \text{ kmol} = \text{_____ dmol}$	$2.4 \times 10^{-22} \text{ kmol} \times \frac{10^3 \text{ mol}}{1 \text{ kmol}} \times \frac{10^1 \text{ dmol}}{1 \text{ mol}} = 2.4 \times 10^{-18} \text{ dmol}$
d. $3.8 \times 10^{32} \mu\text{g} = \text{_____ g}$	$3.8 \times 10^{32} \mu\text{g} \times \frac{1 \text{ g}}{10^6 \mu\text{g}} = 3.8 \times 10^{26} \text{ g}$
e. 425 nm = _____ Mm	$4.25 \times 10^2 \text{ nm} \times \frac{1 \text{ m}}{10^9 \text{ nm}} \times \frac{1 \text{ Mm}}{10^6 \text{ m}} = 4.25 \times 10^{-13} \text{ Mm}$

3